

PRELIMINARY AMENDMENT
Divisional of U.S. Appln. No. 09/014,572

- iv) reducing pressure inside said porous electrode to fix said solid polymer electrolyte film to said porous electrode;
- b) impregnating said porous electrode in said composite under reduced pressure with an electrolytic solution.

Please add the following new claims.

18. (New) A battery obtained by a method comprising the steps of:

- a) providing a composite of a solid polymer electrolyte film and a thin film-shaped porous electrode obtained by a method comprising the steps of:
- i) coating on an electrode surface of said thin film-shaped porous electrode with a polymerizable compound which is converted to said solid polymer electrolyte or a pre-solid polymer electrolyte upon polymerization; and
- ii) reducing pressure inside said porous electrode after superposing said electrode surface coated with said polymerization compound onto said solid polymer electrolyte film,
- b) impregnating said porous electrode in said composite under reduced pressure with an electrolytic solution.

19. (New) The battery as claimed in claim 17, wherein said solid polymer electrolyte film of said composite is obtained by polymerizing a composition comprising a solvent having dissolved therein a polymerizable compound.

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cont.

20. (New) The battery as claimed in claim 18, wherein said solid polymer electrolyte film of said composite is obtained by polymerizing a composition comprising a solvent having dissolved therein a polymerizable compound.

21. (New) The battery as claimed in claim 17, wherein said polymer electrolyte film has an ion conductivity at room temperature of 10^{-5} S/cm or more.

22. (New) The battery as claimed in claim 18, wherein said polymer electrolyte film has an ion conductivity at room temperature of 10^{-5} S/cm or more.

23. (New) The battery as claimed in claim 17, wherein said solid polymer electrolyte film contains a cross-linking polymer having a urethane bond and an oxyalkylene group.

24. (New) The battery as claimed in claim 18, wherein said solid polymer electrolyte film contains a cross-linking polymer having a urethane bond and an oxyalkylene group.

25. (New) The battery as claimed in claim 18, wherein said polymerizable compound coated on said porous electrode has a urethane bond and an oxyalkylene group.

26. (New) A battery according to claim 19, wherein said solid polymer electrolyte film contains no electrolyte salt.

27. (New) A battery according to claim 20, wherein said solid polymer electrolyte film contains no electrolyte salt.

28. (New) The battery according to claim 26, wherein said electrolytic solution comprises a polymerizable compound and an electrolyte salt and said polymerizable compound is polymerized to cure after impregnation under reduced pressure.

29. (New) The battery according to claim 27, wherein said electrolytic solution comprises a polymerizable compound and an electrolyte salt and said polymerizable compound is polymerized to cure after impregnation under reduced pressure.

30. (New) A battery obtained by a method comprising the steps of:

- a) providing a composite of a solid polymer electrolyte film and a thin film-porous electrode obtained by a method comprising the steps of:
 - i) providing said solid polymer electrolyte film;
 - ii) providing said porous electrode comprising an electrochemically

active substance;

iii) contacting said solid polymer electrolyte film with said porous electrode; and

iv) reducing pressure inside said porous electrode to fix said solid polymer electrolyte film to said porous electrode;

b) impregnating said porous electrode of said composite with an electrolytic solution which has a concentration of an electrolyte salt greater than a concentration at which the electrolytic solution has a maximum ion conductivity,

wherein said solid polymer electrolyte film of said composite is obtained by polymerizing a composition comprising a solvent having dissolved therein a polymerizable compound.

31. (New) A battery obtained by a method comprising the steps of:

a) providing a composite of a solid polymer electrolyte film and a thin film-porous electrode obtained by a method comprising the steps of:

i) coating on an electrode surface of said porous electrode with a polymerizable compound which is converted to said solid polymer electrolyte or a pre-solid polymer electrolyte upon polymerization; and

ii) reducing pressure inside said porous electrode after superposing said electrode surface coated with said polymerization compound onto said solid polymer electrolyte film;

b) impregnating said porous electrode of said composite with an electrolytic solution which has a concentration of an electrolyte salt greater than a concentration at which the electrolytic solution has a maximum ion conductivity,

AS wherein said solid polymer electrolyte film of said composite is obtained by polymerizing a composition comprising a solvent having dissolved therein a polymerizable compound.

32. (New) The battery according to claim 30, wherein said electrolytic solution comprises a polymerizable compound and an electrolyte salt and said polymerizable compound is polymerized to cure after impregnation under reduced pressure.

33. (New) The battery according to claim 31, wherein the electrolytic solution comprises a polymerizable compound and an electrolyte salt and the polymerizable compound is polymerized to cure after the impregnation under reduced pressure.